

Design company: Shenzhen HuaSai Electric Technology Co.Ltd.

Address: Shenzhen City, Guangdong Province, China

spce:ANT\_XZR01

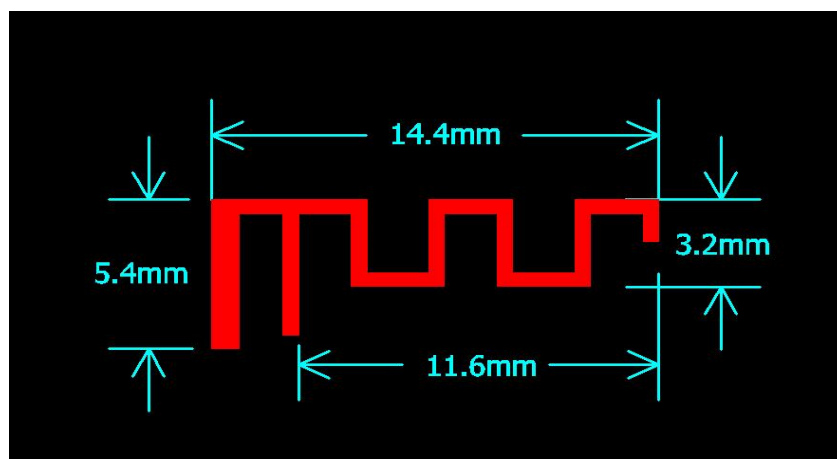
## **Product specification**

### **Quick Reference Date**

|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Frequenc Range             | 2400 ~ 2500 MHz                    |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)   |  |
| Tot. Rad. Pwr. (dBm)       | -1.2 (Input pwr – loss pwr)        |  |
| Peak EIRP(dBm)             | 1.2                                |  |
| Directivity (dBi)          | 1 (all direction antenna)          |  |
| Efficiency (dB)            | 60.2 %                             |  |
| Gain (dBi)                 | 1.68                               |  |
| Maximum Power (dBm)        | 1.68(XZ-plane)                     |  |
| Minimum Power (dBm )       | -3.83(XZ-plane)                    |  |
| Avg. Power (dBm)           | -0.48(XY-plane)                    |  |
| Input Impendence(ohm)      | 50                                 |  |
| Polarization Type          | Vertical & Horizontal              |  |
| V. S. W. R                 | < 1.4                              |  |

All the technical data and information contained herein are subject to change without prior notice

### **Antenna Layout & module on the system board**

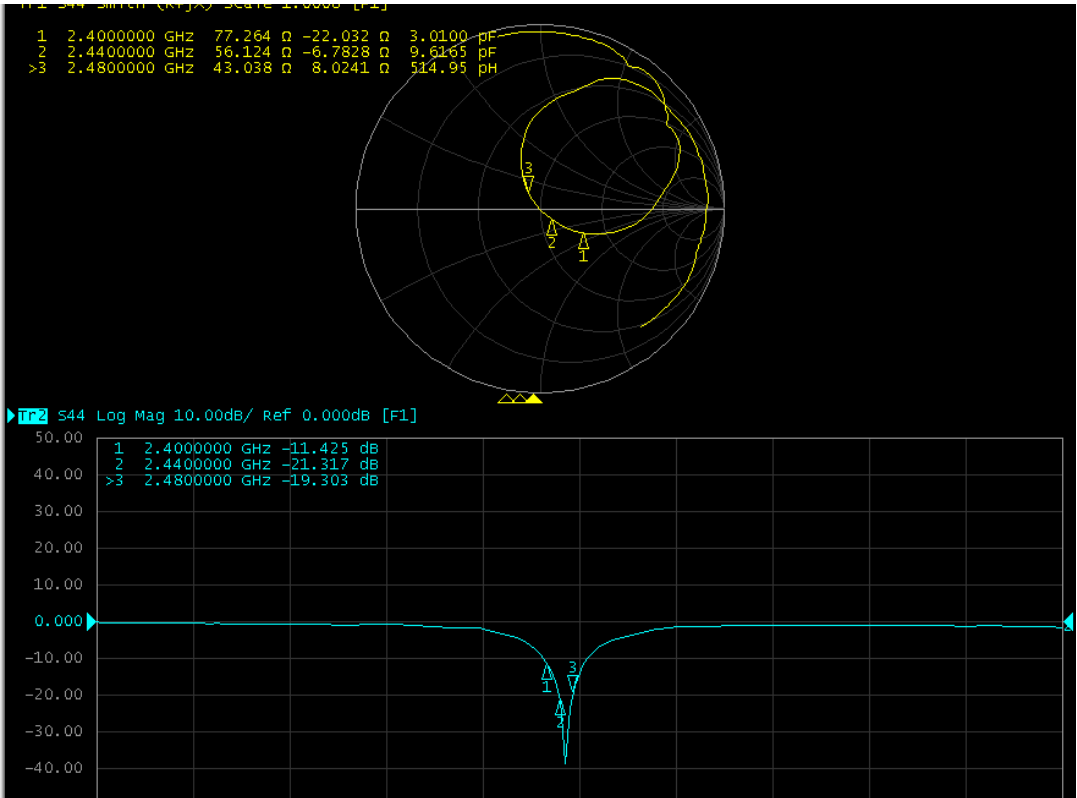


### **Antenna Gain**

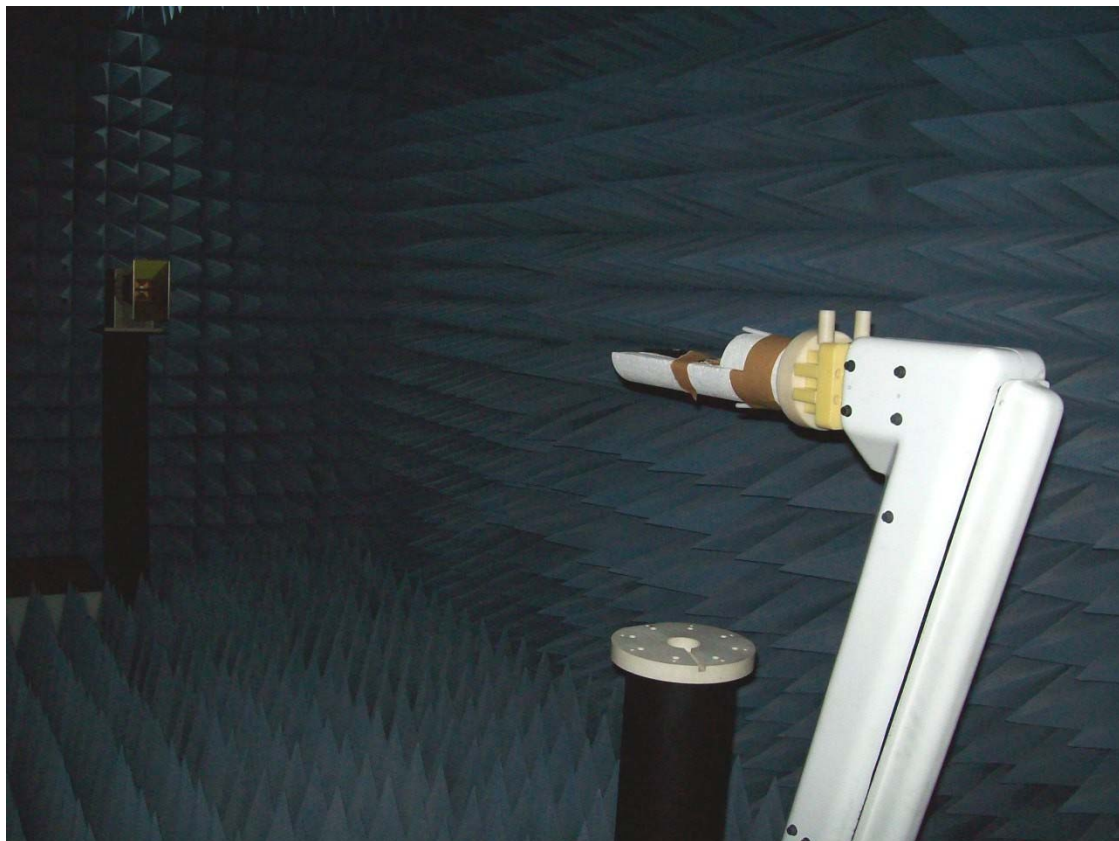
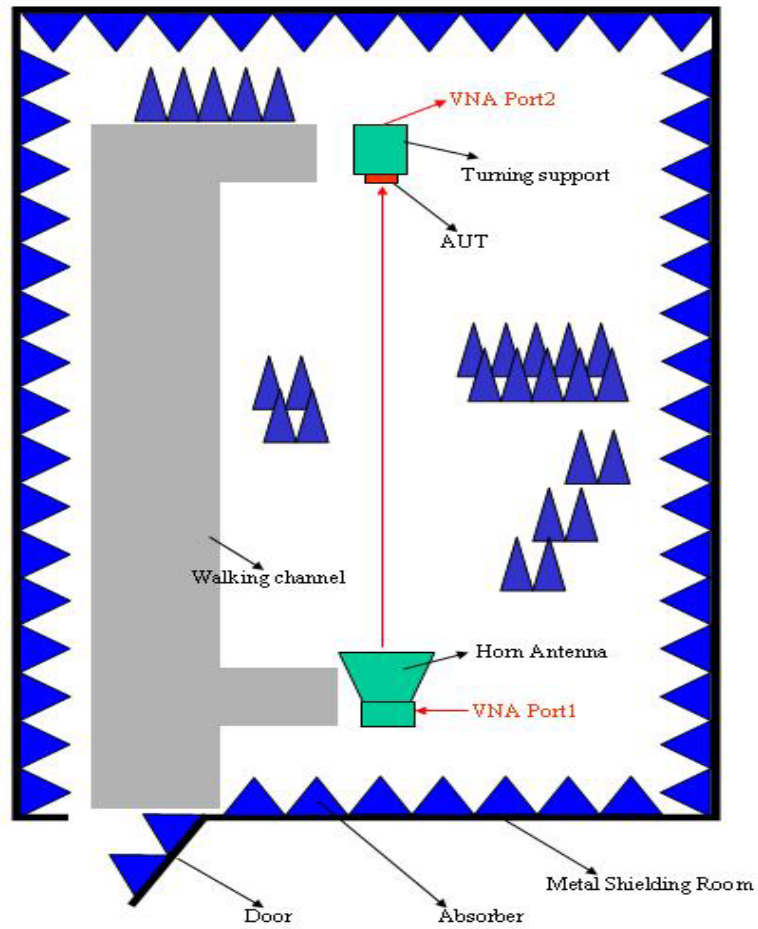
**Gain Table**

| Unit in dBi @2.44GHz | XY-plane |       | XZ-plane |       | YZ-plane |       | Efficiency |
|----------------------|----------|-------|----------|-------|----------|-------|------------|
|                      | Peak     | Avg.  | Peak     | Avg.  | Peak     | Avg.  |            |
| Module Board         | 1.35     | -0.48 | 1.68     | -3.83 | 1.11     | -2.99 | 60.2 %     |

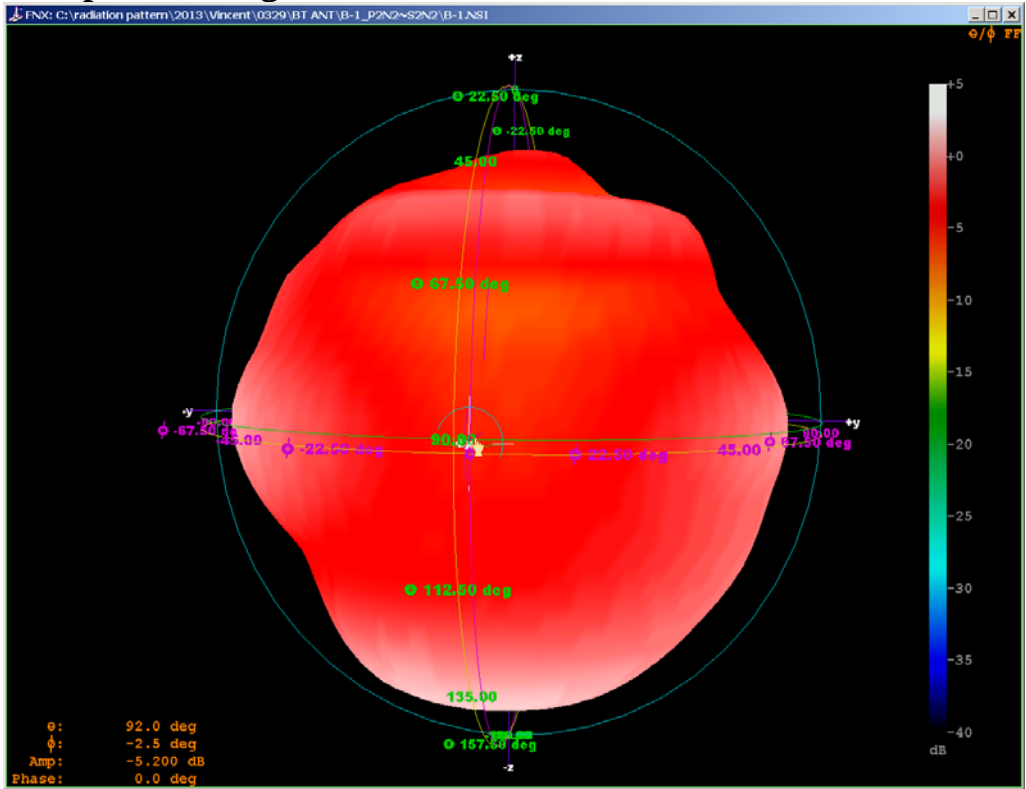
Return Loss



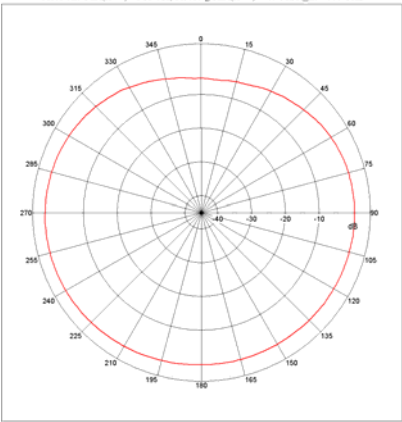
## The Environment of Antenna Radiation Pattern



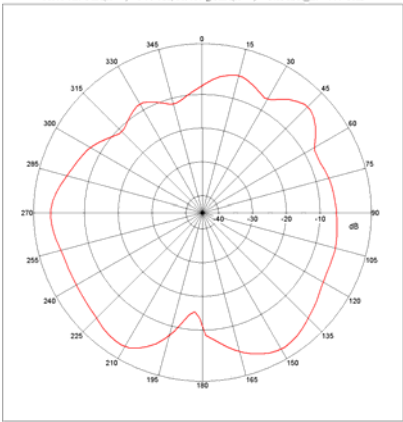
3D radiation pattern diagram



XY- lane



XZ- lane



YZ- lane

